

Content Syndication: Busting Content Silos



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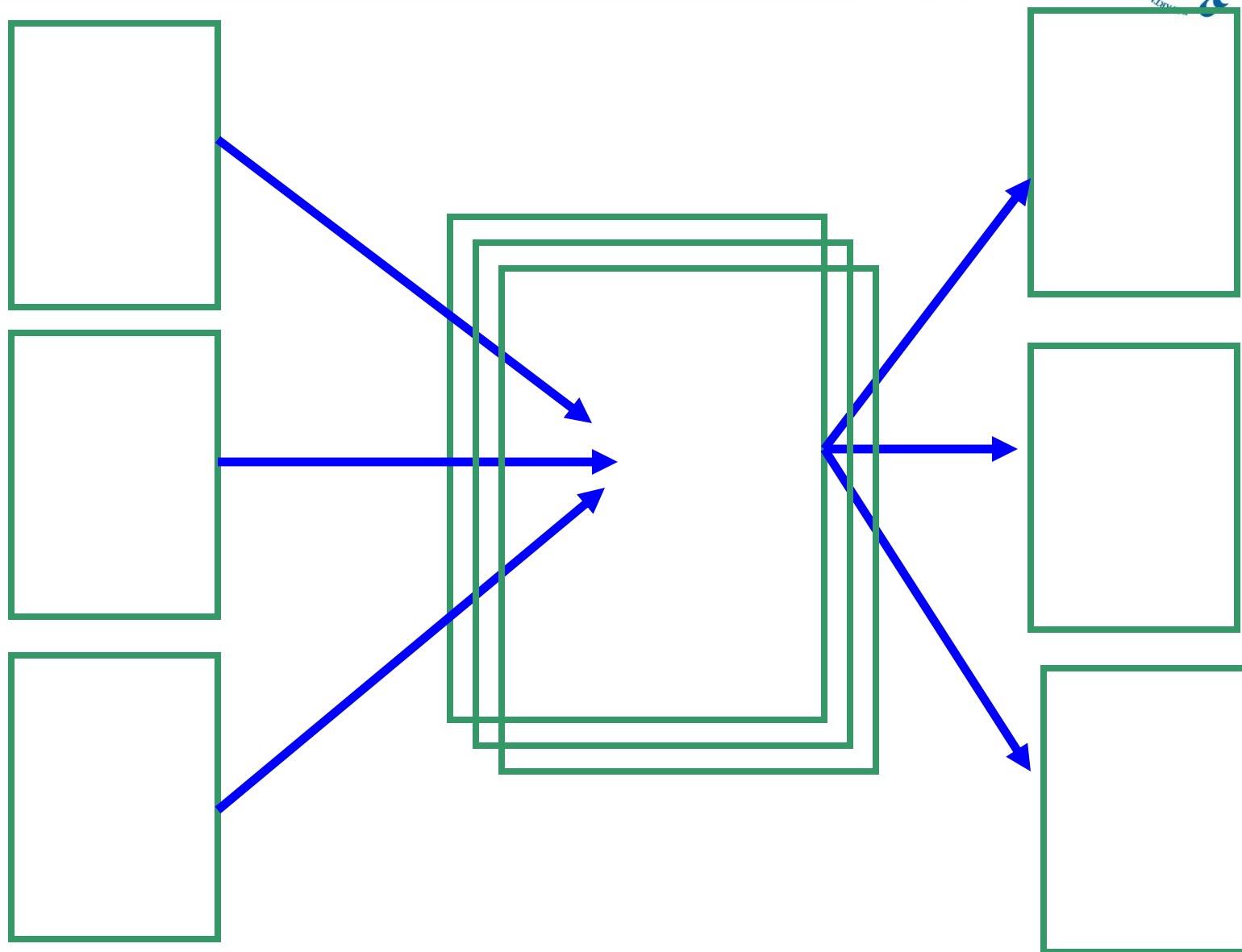
The Web Manager's Quest!



We're Not Talking RSS



Whole Page Syndication: The Concept



The Challenges:



- “Cut and paste” is very time consuming, with potential errors.
- Difficult to update (and to know when something needs updating).
- Difficult to manage In (public health) emergencies, information is rapidly changing).
- Monitoring primary Web pages burdens all partners
- Information may appear contradictory or inconsistent between different partner sites
- Update messages often communicated through email – slow, inconsistent and a burden all parties.
- **Many hours of additional and unnecessary labor!**



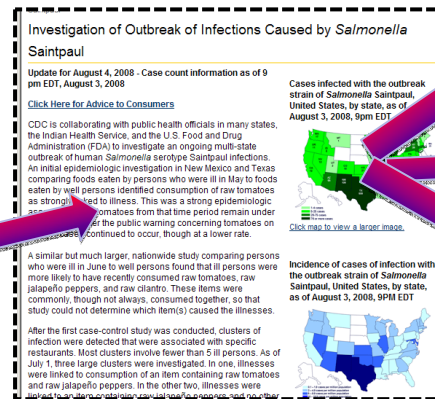
Content Syndication – the Innovative Solution



Information on a partner's website is automatically updated when CDC updates that particular Web page

CDC.gov

Syndicated Content



Partner Web Sites

The Solution – Content Syndication



- Federal Web content even more appealing – e.g, any updates made on a government web site automatically replicate on partner sites.
- Content owner retains editorial control.
- Can be used with any topic or content type.
- Fosters consistent information and messaging across sites.
- Enables more efficient use of resources (e.g., subscribers don't need to worry about updates and updating).
- Expands access to information and messages (e.g., content appears in multiple web sites – via more local sources).
- A wide range of partners – state, tribal, local, territorial; commercial; educational and non-profit.

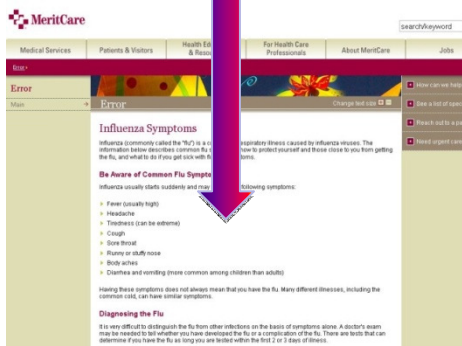
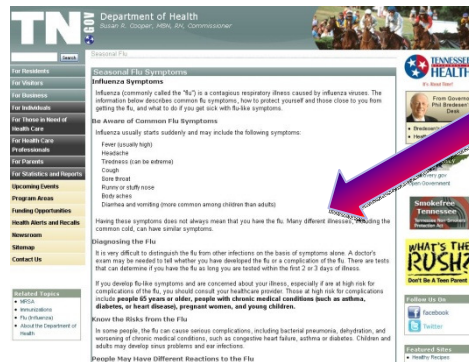
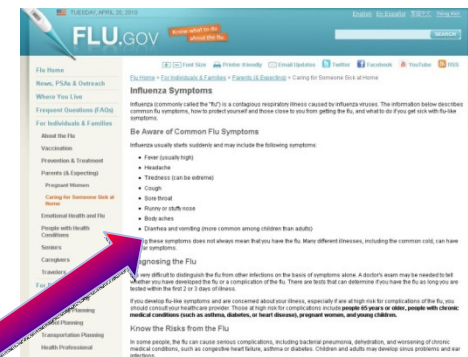
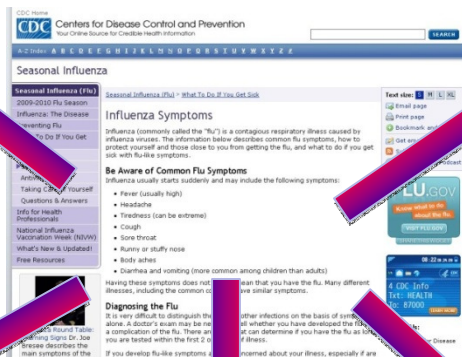
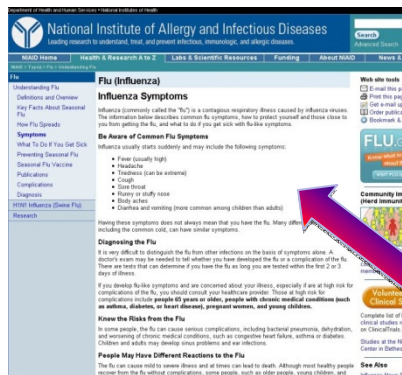
Bottom line – Content syndication reduces costs, reduces inconsistent information, and frees resources so content owners and partners can focus on more important activities.

Three Types of Partner



- **Publisher only**
- **Subscriber only**
- **Publisher/Subscriber**

Content Publisher Website Example



Topic-Based Subscriber Website Example



National Institute of Allergy and Infectious Diseases
Leading research to understand, treat, and prevent infectious, immunologic, and allergic diseases.

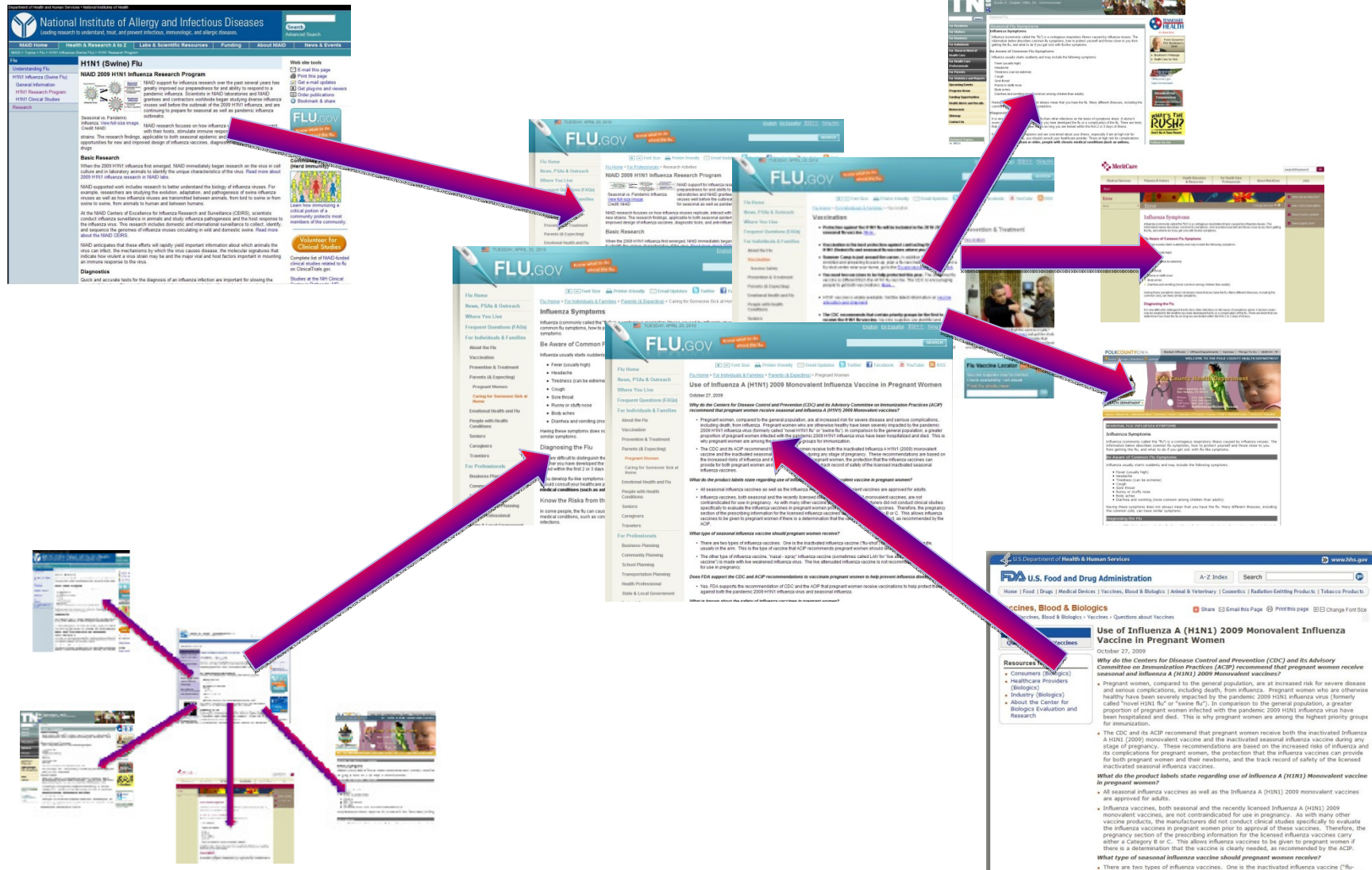
H1N1 (Swine) Flu
NIAID 2009 H1N1 Influenza Research Program
NIAID support for influenza research over the past several years has primarily supported the development of NIAID laboratory and field studies and the development of NIAID laboratory and field studies and the development of NIAID laboratory and field studies.

FLU.GOV
FLU.GOV is the official U.S. government website for information about the 2009 H1N1 influenza pandemic. It provides information about the virus, how it is spread, how to prevent it, and how to get tested and treated.

Use of Influenza A (H1N1) 2009 Monovalent Influenza Vaccine in Pregnant Women
October 27, 2009
Why do the Centers for Disease Control and Prevention (CDC) and its Advisory Committee on Immunization Practices (ACIP) recommend that pregnant women receive seasonal and 2009 H1N1 2009 Monovalent vaccine?

U.S. Food and Drug Administration
FDA supports the recommendation of CDC and the ACIP that pregnant women receive seasonal and 2009 H1N1 2009 Monovalent vaccine.

Topic-Based Publisher/Subscriber Example



How Content Syndication Supported H1N1



Expanded visibility of CDC information on state, local, and partner Web sites

- 418,796 views of CDC H1N1 content via Content Syndication
- 450 Pages of H1N1 content are available for syndication
- 211 Pages of Seasonal Flu content is available for syndication

Content syndication strengthened Flu.gov

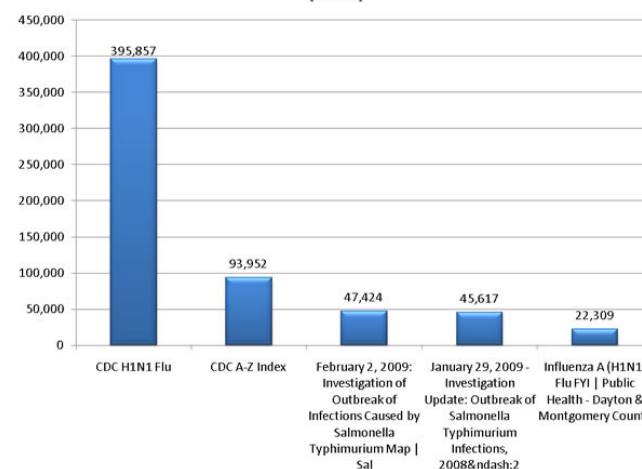
- Helped ensure information consistency among Flu.gov, CDC.gov, FDA.gov and NIAID.NIH.gov – and facilitated migration of information to Flu.gov
- Over 100 pages of CDC/FDA/NIAID H1N1 pages were syndicated to Flu.gov
- Minimized information “ownership” battles
- Over 640,000 views of syndicated CDC/FDA/NIAID H1N1 content on Flu.gov

H1N1 (Swine) Flu

Page Name	Add ALL Pages to Your List
CDC H1N1 Flu H1N1 Flu Vaccination Resources	Add to List
CDC 2009 H1N1 Flu 2009 H1N1 U.S. Situation Update	Add to List
CDC H1N1 Flu Swine Flu: General Information	Add to List
CDC H1N1 Flu Guidance	Add to List
CDC H1N1 Flu Interim Guidance for Novel H1N1 Flu (Swine Flu): Taking Care of a Sick Person in Your Home	Add to List
CDC H1N1 Flu	Add to List
CDC H1N1 Flu H1N1 Flu and You	Add to List
CDC H1N1 Flu What To Do if You Get Flu-Like Symptoms	Add to List
CDC H1N1 Flu Novel H1N1 U.S. Situation Update	Add to List
CDC H1N1 Flu Questions & Answers Novel H1N1 Influenza Vaccine	Add to List

[More H1N1 \(Swine\) Flu »](#)

Top 5 Syndicated Pages
(2009)



Impact/Outcome of CDC Content Syndication



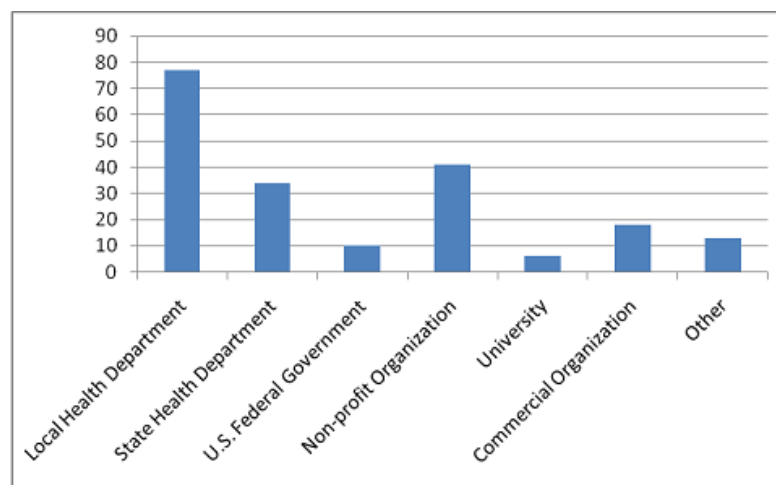
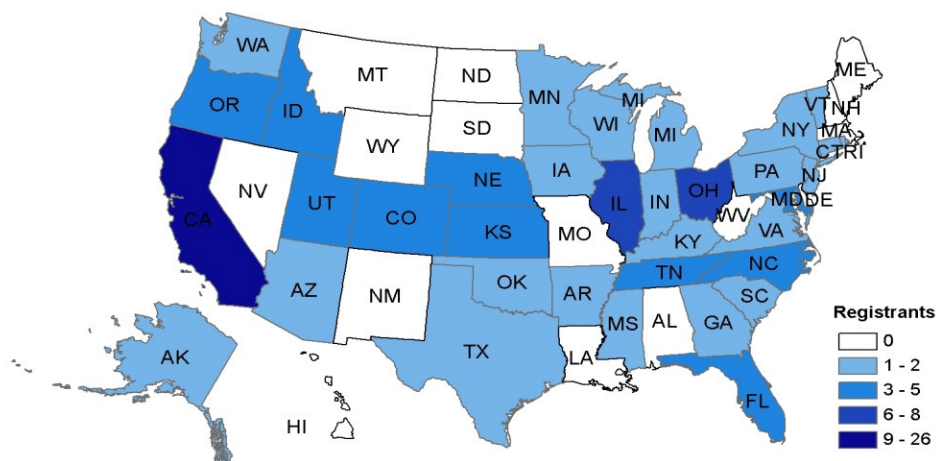
More than 150 public health partners – including state and local health departments, hospitals, universities and federal agencies – have implemented content syndication on their Web sites.

More than 3 million additional views of CDC content on other Web sites, including a one-month high of 770,000 page views (May 2009) during the height of the H1N1 emergency.

More than 1500 partner Web pages containing CDC syndicated content.

Content syndication is being used and tested in 37 of the 50 US states by State and Local health departments.

Number of State and Local Health Departments Registered for Content Syndication



Why Is Content Syndication Important for CDC?



Expands web and communication strategies

- Enables new partnerships to deliver or use CDC content
- Increases access to CDC information
- Increases the audience reach of CDC content
- Drives increased traffic back to the CDC site

Continues CDC's leadership role in using the Internet

- CDC is the first federal agency to develop and offer this capability.
- CDC works closely with HHS, FDA and NIAID to refine and enhance the technology to expand across all of HHS and then with other Federal partners.
- 9 out of 10 of the most visited web sites (e.g. Google, Yahoo, Amazon) provide similar capabilities.
- Supply this technology directly to state, tribal and local health agencies and other Federal agencies.
- Further establishes CDC as a primary source for health information.
- Could increase CDC web traffic by 30-50% over the next 3-5 years.

Benefits



Benefits for Federal, State, Tribal, Local and Territorial Governments and Health Agencies

- Rapid deployment of CDC content to their sites
 - Ability to integrate local information with national information for improved message delivery
- Consistent dissemination channels for Outbreaks and Emergency Responses could be established across health agency web sites
- Allows state and local technical resources to focus on their mission, instead of manually spending time monitoring CDC sites, and having to “cut and paste.”
- Health agencies could offer their own original content to others for syndication, we would make our own technology available to them
- Increase their web site traffic by offering new content to their audiences
- Increase value to their audiences



Benefits Beyond Health Agencies



Increased market reach by partnering with commercial partners like WebMD, Microsoft HealthVault, Google Health, Epocrates, etc.

- Currently in discussions with WebMD, AMA, and Epocrates to use syndicated content
- Usage by large commercial sites could further increase CDC web traffic by 50-100% in 3-5 years

Open government support

- Provides access to health information, improving collaboration opportunities with health partners
- Enables citizens and health partners to create innovative web applications



Morris Hospital, Illinois

<http://www.morrishospital.org/index.cfm?pageID=205>

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Tobacco Products

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Tobacco Products Scientific Advisory Committee

The inaugural meeting of the Tobacco Products Scientific Advisory Committee was held March 30-31, 2010. The archived webcast is now available.



Protecting Kids from Tobacco

A new rule prohibits the sale, distribution, marketing and promotion of cigarettes and smokeless tobacco to children and adolescents. The Center for Tobacco Products Call Center, 1-877-CTP-1373, provides information about the new rule.




Public Dockets for Comment

FDA has established a public docket to provide an opportunity for interested parties to share information, research, and ideas on how use of dissolvable tobacco products may impact public health.

Spotlight

- [Watch the Archived Webcast of the March 30-31 Meeting of the Tobacco Products Scientific Advisory Committee \(TPSAC\)](#) 
- [Jobs at the Center for Tobacco Products \(CTP\)](#)
- [Final Guidance for Industry: Tobacco Health Document Submission](#)

Tools

- [Calculator: How Much Does Smoking Cost You?](#) 
- [Reasons to Quit](#) 
- [How Does Smoking Affect Your Lifespan?](#) 

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Protecting Kids from Tobacco

FDA is working to protect the health of America's children, and ultimately reduce the

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New Report



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[Tobacco Addiction Research Report](#)



[Cigarettes and Other Nicotine Products](#)

Additional Resources

- [Treating Tobacco Use and Dependence Guidelines](#)
- [NIDA for Teens - Nicotine Addiction](#)
- [Mind Over Matter - Nicotine](#) - part of a seven-part series designed to encourage young people in grades five through nine to learn about the effects of drug abuse on the body and the brain.
- [Collection of NIDA NOTES articles on Nicotine Addiction](#)
- [NIDA's index page on nicotine addiction](#)
- [More Publications from the National Institute on Drug Abuse](#)

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Tobacco Addiction Research Report



Cigarettes and Products

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Center for Tobacco Products Call Center, 1-877-CTP-1373, provides information about the new rule.



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- [Systems Decisionmaker Material](#)
- [Consumer Materials](#)
- [Banner Graphics for Linking](#)
- [Surgeon General Information for 2008 Guideline and Related Materials](#)
- [Press Releases](#)
- [Speeches](#)
- [More Resources](#)

What's New

- [Supplement: Corrections and Additions to the 2008 Guideline Update](#)
- [Slide Presentation: Full Set](#)
- [Treating Tobacco Use and Dependence—Quick Reference Guide \(PDF File, 620 KB\)](#)
- [Systems Change: Treating Tobacco Use and Dependence](#)

information on how use of dissolvable tobacco products may impact public health.

- [Calculating Your Smoking Cost](#)
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and other dangers of tobacco use.

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Treating Tobacco Use and Dependence: 2008 Update

Treating Tobacco Use and Dependence: 2008 Update, sponsored by the Public Health Service, includes new, effective clinical treatments for tobacco dependence that have become available since the 2000 Guideline was published. This update will make an important contribution to the quality of care in the United States and to the health of the American people.

Accurate, up-to-date information and professional assistance are provided in two resources from the U.S. Department of Health and Human Services to help support people who are trying to quit smoking:

- You Can Quit Smoking Now. Go to: <http://www.smokefree.gov>
- 1-800-QUIT NOW—the national access number to State-based quitline services.

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Smoke-free Homes and Cars Program

EPA and HHS Partnering to Promote Smoke-free Homes for Head Start Families
EPA and the U.S. Department of Health and Human Services (HHS), Administration for Children and Families, Head Start Bureau are working together to improve the quality of life for nearly a million Head Start children by conducting nationwide secondhand smoke and asthma outreach. Read more about the EPA and HHS partnership and what you can do as a Head Start teacher, staff member or parent to help create [Care for their Air, Promoting Smoke-free Homes for Head Start Families](#).

Secondhand Tobacco Smoke and the Health of Your Family Brochure (Bilingual)

With English text on one side and Spanish text on the other side, this straightforward brochure explains the basics about the dangers of secondhand smoke to families, especially to children. This tri-fold brochure can be used at health fairs, clinics and hospitals, parent meetings, and at other community activities.

- [PDF Version](#) (PDF, 2 pp., 1.55 M, [about PDF](#))
- [EPA 402/F/09/004, September 2009](#)
- [Find out how to order this and other publications from EPA](#)

Secondhand Smoke Can Make Children Suffer Serious Health Risks - Children's exposure to secondhand smoke is responsible for:

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FDA is working to protect the health of children by regulating tobacco products. FDA is also working to protect the health of children by regulating tobacco products.

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A few basic actions can protect children from secondhand smoke

Choose not to smoke in your home and car and do not allow infants and visitors to do so. Especially vulnerable to the health risks from secondhand smoke.

Do not allow childcare providers or others who work in your home to smoke.

Until you can quit, choose to smoke outside. Moving to another room or opening a window is not enough to protect your children.

For more information on secondhand smoke, see EPA publications and take the Smoke-free Home Pledge, Prometo no fumar en su hogar

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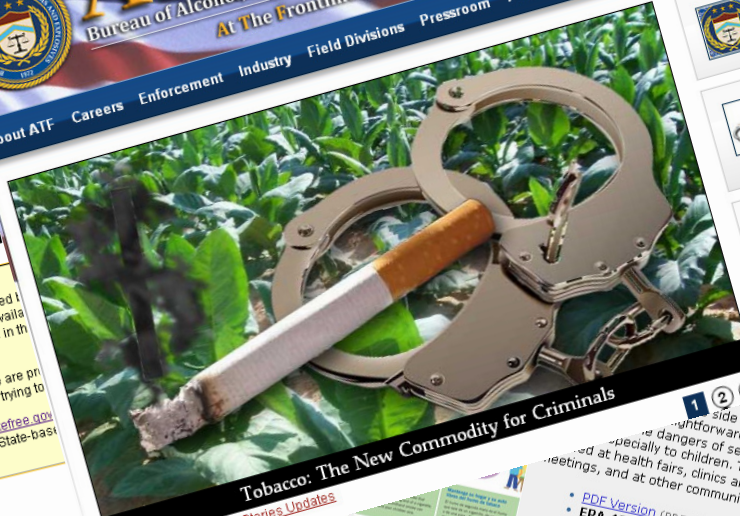
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Tobacco: The New Commodity for Criminals

Receive Featured Stories Updates

Featured Story: Tobacco

- 1 side and Spanish text on the
- 2 dangers of secondhand smoke to
- 3 especially to children. This tri-fold brochure can
- be used at health fairs, clinics and hospitals, parent
- meetings, and at other community activities.

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Treating Tobacco Use and Dependence

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TODAY!
we can help

What do you think?

What's your worst withdrawal symptom?

- ☐ Feeling down or sad
- ☐ Cough
- ☐ Feeling grouchy
- ☐ Having trouble concentrating

For Clinicians
For Systems/Depts
For Tobacco Users
Ordering Information for 2009
Evidence Report

News (Tobacco)

Press Releases, FAQs, Progress Reports, and

Get started

Use the step-by-step quit guide

- Are you...
 - ☐ Thinking about quitting?
 - ☐ Preparing to quit?
 - ☐ Quitting?
 - ☐ Trying to stay quit?

Go!

Send a Smokefree e-card

Send an online card to encourage someone to quit or to let your friends and family know you're planning to quit.

Map
Learn about smoking

U.S. Department of Health & Human Services
Office of the Surgeon General

Search

Project Gunrunner
Recovery Act Information

FIREARMS TRAFFICKING

Violent Crime Impact Teams

National Integrated

Threat Information Network

Program Overview

Hits of the Week

US BOMB DATA CENTER

About USBDC

Help create Care

re (Bilingual)

text on the

explains the

smoke to

brochure can

s, parent

s.

2009

ar publications

Basic actions can

secondhand smoke

Choose not to smoke in your

home and car and do not allow

family and visitors to do so.

Infants and toddlers are

especially vulnerable to the

health risks from secondhand

smoke.

Do not allow childcare providers

or others who work in your

home to smoke.

Until you can quit, choose to

smoke outside. Moving to

another room or opening a

window is not enough to protect

your children.

For more information on

secondhand smoke, see EPA

publications and take EPA

Smoke-free Home Pledge,

Prometo no fumar en su hogar



site:.gov tobacco

Search

[Advanced Search](#)

Web [+ Show options...](#)

Results 1 - 10 of about 5,300,000 for **site:.gov tobacco**.

[Smoking and **Tobacco** Use :: Office on Smoking and Health \(OSH\) :: CDC](#) ☆

Nov 17, 2009 ... Maintained by the CDC's Office on Smoking and Health. Covers **tobacco**-related issues, statistics, news, research, data, reports, ...

[Data and Statistics](#) - [Quit Smoking](#) - [Basic Information](#)

www.cdc.gov/tobacco/ - [Cached](#) - [Similar](#)

[CDC - Health Topic: Smoking and **Tobacco** Use](#) ☆

Information from the US Centers for Disease Control and Prevention.

www.cdc.gov/doc.do/id/0900f3ec802346d8 - [Cached](#) - [Similar](#)

[+ Show more results from www.cdc.gov](#)

[Tobacco Program Home Page - WA State Dept. of Health](#) ☆

Tobacco remains the main cause of preventable disease and death in Washington state, killing about 7500 people every year. This despite major gains in ...

www.doh.wa.gov/TOBACCO/default.htm - [Cached](#)

[smoking.drugabuse.gov - Nicotine Addiction and the other Dangers ...](#) ☆

Nicotine addiction and other dangers of **tobacco** use. ... 2010 Society for Research on Nicotine and **Tobacco** (SRNT) Annual Meeting February 24-27, 2010 ...

smoking.drugabuse.gov/ - [Cached](#) - [Similar](#)

[Tobacco](#) ☆

The inaugural meeting of the **Tobacco** Products Scientific Advisory Committee was held March 30-31, 2010. The archived webcast is now available. ...

www.fda.gov/TobaccoProducts - [Cached](#) - [Similar](#)

Sponsored Links

[Facts About **Tobacco**](#)

Data and Statistics About **Tobacco** and Smoking

www.LungUSA.org

[See your ad here »](#)



site:.gov tobacco

Search

[Advanced Search](#)

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Sponsored Links

[Facts About **Tobacco**](#)

Data and Statistics About **Tobacco** and Smoking

www.LungUSA.org

[See your ad here »](#)



Why Silos Exist



- Reflect owners work or responsibility
 - NIH=research; FDA=drugs; CDC=health; EPA=air quality; ATF=enforcement; NIDA=addiction; Women's Health, etc.
- Campaigns
- Turf
 - Funding (and branding)(and ego)
- Congressional Mandate
- Legacy

What Consumers Want



PandemicFlu.gov



Get Informed. Be Prepared.

The official U.S. government Web site for information on pandemic flu and avian influenza.

[Home](#)
[Contact Us](#)

General Information

- Key Facts
- Frequently Asked Questions
- Vaccines, Medications
- Background Information

Health & Safety

- For Families
- For Workers
- For Health Professionals
- Protecting Birds & Other Animals

Monitoring Outbreaks

- United States Surveillance
- International Surveillance

Planning & Response Activities

- National Strategy for Pandemic Influenza
- U.S. Department of Health & Human Services Pandemic Influenza Plan
- Federal Agency Activities
- State Pandemic Plans
- Risk Communication Resources

Travel & Transportation

- Travelers' Health
- Transportation Industry Information

Research Activities

- Pandemic Research
- Vaccine Research
- Drug Development

National Strategy

[The National Strategy for Pandemic Influenza](#) guides our nation's preparedness and response to an influenza pandemic.

Highlights

[The U.S. Department of Health & Human Services Pandemic Influenza Plan](#)

News

- [Press Releases](#)
- [Press Conferences](#)
- [Speeches](#)
- [Testimony](#)

Related Links

- [Seasonal Flu](#)

Flu Home

[News, PSAs & Outreach](#)

[Where You Live](#)

[Frequent Questions \(FAQs\)](#)

[For Individuals & Families](#)

[About the Flu](#)

[Vaccination](#)

[Prevention & Treatment](#)

[Parents \(& Expecting\)](#)

[Emotional Health and Flu](#)

[People with Health
Conditions](#)

[Seniors](#)

[Caregivers](#)

[Travelers](#)

[For Professionals](#)

[Business Planning](#)

[Community Planning](#)

[School Planning](#)

[+ - Font Size](#) [Printer-friendly](#) [Email Updates](#) [Twitter](#) [Facebook](#) [YouTube](#) [RSS](#)



H1N1: The First Year Where Things Stand

April 26, 2009: Public Health Emergency Declared

[More >>](#)

One Year

1

Planning for Summer Camp

2

The 1918 Influenza Pandemic

3

Together We Can All Fight the
Flu

4

News Briefings and Webcasts

5

[Recent Home Page Features](#)

Get vaccinated!

H1N1 flu shots are widely available and everyone is urged to get vaccinated. Protect yourself in case there is a third flu wave this winter. Enter your zip code in the Flu Vaccine Locator to learn where to get vaccinated, or select your state from the dropdown menu below.

Flu Vaccine Locator

Find flu clinics
near you

Vaccine supplies may be limited.
Check availability; call ahead.

Find flu shots near:

GO

powered by Google

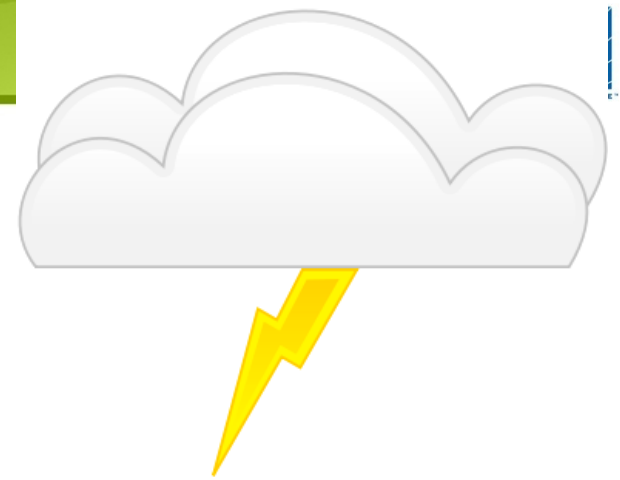
Ask the Flu Experts!



Our experts have answered
hundreds of questions this flu

Benefits of Syndication

HUMAN SERVICES · USA



- Content serves multiple needs
- No turf battles
- Topical site aggregates cherry-picked content
 - Satisfies consumer need
- Office/campaign retains ownership
 - Satisfies bureaucratic need
- Maintenance stays with content owner/SME
 - Consistent and current content across all sites



Version History



Version 1.0

- Java Server Application
- Scrape on demand
- No content cacheing
- No off-loading of network traffic
- Limited API
- Not standards-based
- Private registration
- Version 1.5
 - .NET Application
 - Content cacheing
 - CDN cacheing and network traffic off-load
 - Public registration; public catalog
 - Not fully standards compliant
 - Lack of real-time notifications
 - CDC Network specific

Version History



- Version 2.0 (In development)
 - Java and .NET versions
 - High level of cacheing and fault-tolerance
 - Real time notifications
 - Multiple nodes in a federated network
 - Sharable taxonomies
 - Standards-based with multiple formats
 - Robust, documented API
 - Architected for technology independence
 - Open sourced and freely distributed
 - Open requirements and interfaces, supporting any platform

An Open API to Your Content



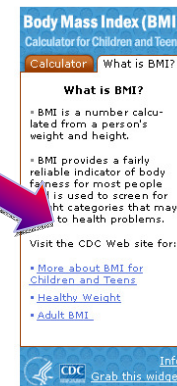
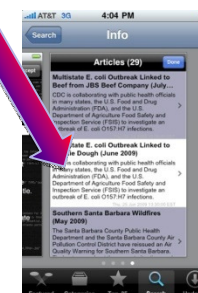
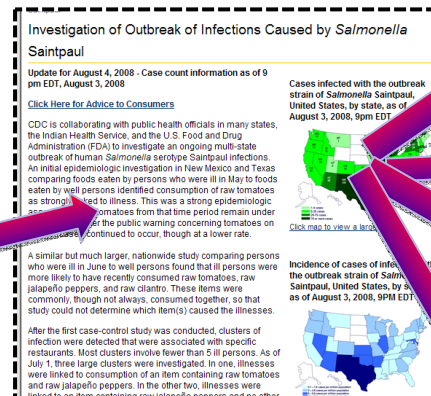
Syndication allows content to be reused in multiple channels,
not just websites.

CDC.gov

Syndicated Content

Websites

Mobile sites



3rd Party
Applications

Widgets

Federated Network of Distributed Nodes

- **Make available the .NET and Java applications for partners to syndicate their own content as well as bring in content from others in the network.**
- **Initial Network roll-out will be late summer with CDC, HHS, FDA and NIAID.**
- **Second wave to include other Operating Divisions of HHS (CMS, NCI) another Federal agency and one or two state health departments.**
- **Expand to include non-health related topics, eg, Risk and Emergency Communications, Policy, Tax Law, etc. Essentially any and all topics.**

Getting Started



As a subscriber:

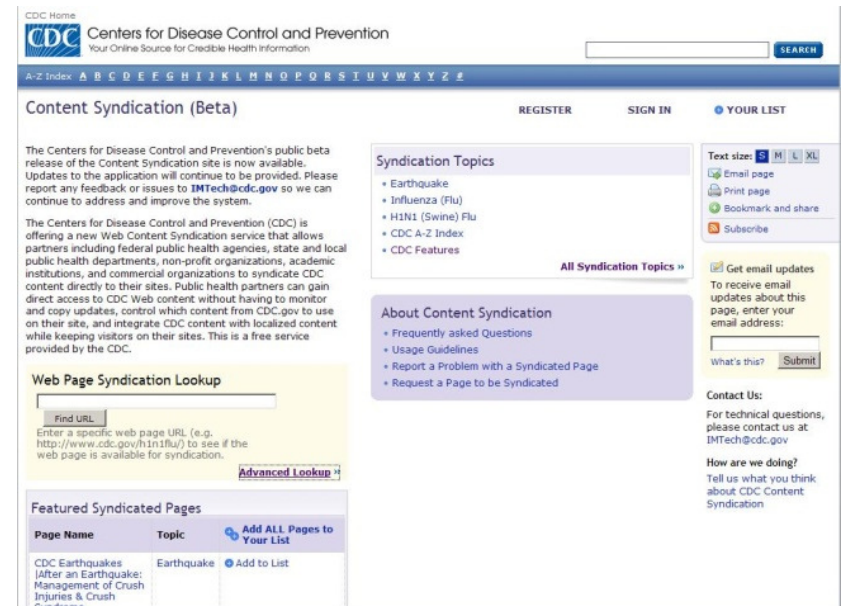
1. Register at <http://tools.cdc.gov/register/>
2. Select pages from the inventory of available content (a good sample page for consumer friendly content is “Current Healthy Living Feature Topic”
<http://t.cdc.gov/synd.aspx?js=1&url=http://t.cdc.gov/CKT>)
3. Get the code from the system and begin testing.

As a content publisher:

Contact Fred Smith (wfsmith@cdc.gov) to discuss how to get included in future roll-out and expansion plans.

As an application developer:

Contact Fred Smith (wfsmith@cdc.gov) for a draft of the API documentation and URLs to standards-based feeds.



CDC Content Syndication 'Storefront'

<http://tools.cdc.gov/register/>

Testimonials



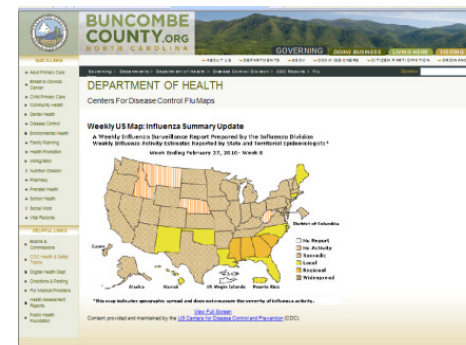
"With the syndication project, when the CDC updates its Web site with additional outbreak information, the Ohio Department of Health Web site is updated in real-time. An important advantage to this project is that messages are consistent across states and federal agencies because they all have access to the same information."

-- Dr. Michele Shipp, Assistant Director of the Ohio Department of Health



"With the implementation of content syndication, we could ensure that our users had access to the most up-to-date health information. The ease of set-up and the ability to select additional content to our site has allowed the County to be confident that we would have updated information for the most relevant health-related topics, such as H1N1 and seasonal flu as well as the flood and e-coli information, without additional labor on our part."

-- Kathy Hughes, Public Relations Director, Buncombe County, NC Department of Health



http://www.buncombecounty.org/governing/depts/health/cdc/cdc_report.asp?title=flu_map

The Content Syndication Team



Core Design & Implementation Team

CDC

- Carol Crawford
- Fred Smith
- Scott Mullins
- Kathleen Carey
- Cassian Pallansch (CTR)
- Thomas Williams (CTR)
- Jim Arnzen (CTR)
- Mike Peltz (CTR)
- Dave Cummo (CTR)

FDA

- Sanjay Koyani
- Dan Luxenberg
- Steven Hubbard
- Beau Brooks
- Donna Avallone

HHS/ASPA

- Prudence Goforth
- Dick Stapleton
- Craig Lafond
- Ted Hsieh
- Ben Nall (CTR)
- Aaron Stowell (CTR)
- Ben Miller (CTR)

NIH/NIAID

- Tori Matthews
- Christen Geiler
- Holly Irving
- Jake Jester
- Song Chen
- Krista Townsend
- Andrew Murphy
- Leon Orshanski